

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	17	(("5156772") or ("6246789") or ("6064757") or ("5643699") or ("5388517") or ("5548372") or ("5768443") or ("5980088") or ("6205364") or ("5856844") or ("6449516") or ("4566038") or ("4680627") or ("4894790") or ("5161202") or ("6165658") or ("6567713")).PN.	USPAT	OR	OFF	2005/06/21 14:38
S6	1	US-20020015165-A1.DID.	US-PGPUB; USPAT	OR	OFF	2005/06/14 09:40
S7	10	(("4,829,375") or ("4,136,948") or ("5,164,742") or ("5,274,394") or ("5,403,684") or ("5,453,777") or ("5,459,941") or ("5,500,801") or ("5,548,372") or ("5,699,742")).PN.	USPAT	OR	OFF	2005/06/14 10:52
S8	2166	((382/144,145,147,151,287,289) or (438/16) or (348/126)).CCLS.	USPAT	OR	OFF	2005/06/20 09:01
S9	21583	(alignment aligning) near3 (mark marking fiducial pattern crosshair vias through near2 hole)	USPAT	OR	ON	2005/06/14 10:58
S10	254	S8 and S9	USPAT	OR	ON	2005/06/14 10:55
S11	587521	(PCB printed near2 circuit near2 board substrate)	USPAT	OR	ON	2006/12/06 10:54
S12	172	S10 and S11	USPAT	OR	ON	2005/06/14 10:55
S13	118557	(multilayer\$3 multi-layer\$3 multi near1 layer\$3)	USPAT	OR	ON	2005/06/14 10:56
S14	124326	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3)	USPAT	OR	ON	2006/12/06 10:54
S15	26225	S11 with S14	USPAT	OR	ON	2005/06/14 10:58
S16	108	S11 with S14 same S9	USPAT	OR	ON	2005/06/14 10:59
S17	60450	(alignment aligning register\$3 registration) near3 (mark marking fiducial pattern crosshair vias through near2 hole)	USPAT	OR	ON	2005/06/20 09:01
S18	174	S11 with S14 same S17	USPAT	OR	ON	2005/06/14 11:52
S19	2	S8 and S18	USPAT	OR	ON	2005/06/14 10:59
S20	2166	((382/144,145,147,151,287,289) or (438/16) or (348/126)).CCLS.	USPAT	OR	OFF	2005/06/20 09:01
S21	36394	(alignment aligning register\$3 registration) near3 (hole)	USPAT	OR	ON	2006/12/06 10:55
S22	30	S20 and S21	USPAT	OR	ON	2005/06/20 09:02

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S23	587521	(PCB printed near2 circuit near2 board substrate)	USPAT	OR	ON	2005/06/20 09:02
S24	21	S22 and S23	USPAT	OR	ON	2005/06/20 09:02
S25	124326	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3)	USPAT	OR	ON	2005/06/20 09:23
S27	73148	S23 and S25	USPAT	OR	ON	2005/06/20 09:23
S28	784383	(alignment aligning register\$3 registration)	USPAT	OR	ON	2005/06/20 09:30
S29	21319	S27 and S28	USPAT	OR	ON	2005/06/20 09:24
S30	96	S29 and S20	USPAT	OR	ON	2005/06/20 09:24
S31	40976	(alignment aligning register\$3 registration) near3 opening	USPAT	OR	ON	2005/06/20 09:31
S32	4747	S23 and S31	USPAT	OR	ON	2005/06/20 09:31
S33	744	S23 and S31 and S25	USPAT	OR	ON	2005/06/20 09:31
S34	2	S23 and S31 and S25 and S20	USPAT	OR	ON	2005/06/20 09:31
S35	6	align\$5 same non-periodic near2 pattern	USPAT	OR	OFF	2005/06/21 14:38
S36	9	align\$5 same non-periodic near2 pattern	USPAT	OR	ON	2005/06/21 14:39
S37	11	align\$5 same (non-periodic nonperiodic) near2 pattern	USPAT	OR	ON	2005/06/21 14:43
S38	2	register\$5 same (non-periodic nonperiodic) near2 pattern	USPAT	OR	ON	2005/06/21 14:50
S39	1	("5388517").PN.	USPAT	OR	OFF	2005/06/21 14:51
S40	6	("3015266"   "4273045"   "4431923"   "4468706"   "4704033").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 14:51
S41	14	("5388517").URPN.	USPAT	OR	OFF	2005/06/21 14:55
S42	1	("5388517").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 15:07
S43	6	("5643699").URPN.	USPAT	OR	OFF	2005/06/21 15:07
S44	2	("5170058"   "5643699").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 16:02
S45	1	"10/045,651".app.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/06/21 16:02
S46	1	("6205364").PN.	USPAT	OR	OFF	2006/02/16 11:30

## EAST Search History

S47	4269386	(multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3) (two layer\$3)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:57
S48	1009353	(PCB printed near2 circuit near2 board substrate)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S49	48506	(alignment aligning register\$3 registration) near3 (hole)	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S50	1895	S47 same S48 same S49	US-PGPUB; USPAT	OR	ON	2006/12/06 10:56
S51	1762409	((multilayer\$3 multi-layer\$3 multi near1 layer\$3) or (dual-layer\$3 dual near1 layer\$3) or (plural-layer\$3 plural near1 layer\$3) (two layer\$3)).clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:57
S52	440287	((PCB printed near2 circuit near2 board substrate)).clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S53	11304	((alignment aligning register\$3 registration) near3 (hole)).clm.	US-PGPUB; USPAT	OR	ON	2006/12/06 10:58
S54	187	S51 same S52 same S53	US-PGPUB; USPAT	OR	ON	2006/12/06 10:59
S55	80	S51 same S52 same S53	US-PGPUB	OR	ON	2006/12/06 10:59